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I.F.W.

Applicant's Docket No. 1012-188(2003-011R1)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Kolosov et al.
Serial No.: 10/804,379
Filed: 03/19/2004
For: RESONATOR SENSOR ASSEMBLY

Group Art Unit: 2855
Examiner: Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

A listing of the references on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of the U.S. references have not been provided because its filing date falls after June 30, 2003. Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

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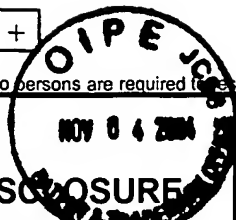
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Application Number	10/804,379
Filing Date	03/19/2004
First Named Inventor	Kolosov et al.
Group Art Unit	2855
Examiner Name	
Attorney Docket Number	1012-188

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Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		3,622,968		Silverman	11/23/1971	
		3,718,032		Gray	02/27/1973	
		3,778,757		Houston	12/11/1973	
		4,342,936		Marcus et al.	08/03/1982	
		4,349,881		November et al.	09/14/1982	
		4,370,662		Hou et al.	01/1983	
		4,391,338		Patashnick et al.	07/05/1983	
		4,526,480		Ward	07/1985	
		4,543,829		Lerch	10/1985	
		4,721,874		Emmert	01/26/1988	
		4,734,609		Jasime	03/29/1988	
		4,741,200		Hammerle	05/03/1988	
		4,779,451		Ezawa et al.	10/1988	
		4,812,698		Chida et al.	03/1989	
		4,910,523		Huguenin et al.	03/1990	
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		5,191,791		Gerardi et al.	03/1993	
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		5,224,174		Schneider et al.	06/1993	
		5,253,530		Letcher, III	10/1993	

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		Office ³	Number ⁴ (if known)				
			EP 0102490	Bopp & Reuther GMBH	03/14/1984		
			EP 0282251	Schlumberger Electronics	09/14/1988		
			EP 0676638	Tektronix, Inc.	10/11/1995		
			WO 99/51980	Symyx	10/14/1999		
			WO 00/67086	Symyx	11/09/2000		
			WO 99/18431	Symyx	04/15/1999		
			GB 2187286	Hatschek	09/03/1987		

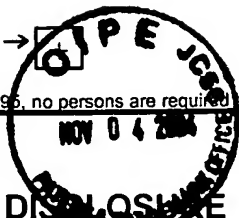
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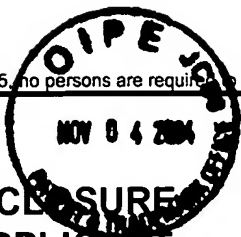
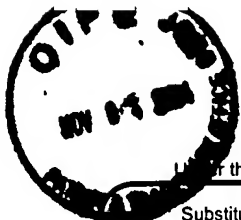
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		Number	Kind Code ² (if known)			
		4,782,332		Cipris et al.	11/1/1988	
		4,970,492		King	11/13/1990	
		5,332,961		Hammerle	7/26/1994	
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		5,915,499		Few	6/29/1999	
		6,247,354		Vig et al.	6/19/2001	
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		2002/0162390		Ismail et al.	11/7/2002	

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Sheet 1 of 1

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		Number-Kind Code ² (if known)			
		US- 2002/0162385	11/7/2002	Ismail et al.	
		US- 3,710,275	1/9/1973	Tanaka et al.	
		US- 4,549,427	10/29/1985	Kolesar, Jr.	
		US- 4,802,370	2/7/1989	EerNisse et al.	
		US- 5,334,900	8/2/1994	Kawashima	
		US- 5,445,008	8/29/1995	Wachter et al.	
		US- 6,286,363	9/11/2001	Discenzo	
		US- 6,644,095	11/11/2003	Van Mullekom et al.	
		US- 6,023,961	2/15/2000	Discenzo et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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				Application Number	10/804,379
				Filing Date	03-19-04
				First Named Inventor	Kolosov et al.
				Group Art Unit	2855
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FOREIGN PATENT DOCUMENTS								
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		Office³	Number⁴	Kind Code⁵ (if known)				
		DE	4424422 (abstract)		Dieter et al.	1/18/1996		
		GB	2114745		Bestobell Ltd.	8/24/1983		
		JP	8112613 (abstract)		Sky Alum. Co. Ltd	5/7/1996		
		JP	5129874 (abstract)		Seiko Epson Corp.	5/25/1993		
		JP	60134617 (abstract)		Kinseki KK	7/17/1985		
		WO	02/23134		Lewis	3/21/2002		

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Sheet 1 of 1

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Sheet 1

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Application Number	10/804.379
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		Number	Kind Code ² (if known)			
		4,103,224		Taro et al.	7/25/1978	
		5,885,849		Di Stephano et al.	3/23/1999	
		5,792,938		Gokhfeld	8/11/1998	
		6,126,311		Schuh	10/3/2000	
		6,041,642		Duncan	3/28/2000	
		4,535,620		Cunnungham	8/20/1995	
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		5,338,416		Mlcak et al.	8/16/1994	
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		6,275,137		Doppalapudi et al.	8/14/2001	
		6,311,549		Thundat et al.	11/6/2001	
		6,441,716		Doppalapudi et al.	8/27/2002	
		6,511,915		Mlcak	1/28/2003	
		2002/0068488		Tuller et al.	6/6/2002	
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		4,862,384		Bujard	8/29/1989	
		6,661,162		Nagai et al.	12/9/2003	
		5,325,704		Mariami et al.	7/5/1994	

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		5,918,354		Ikegami et al.	7/6/1999	
		2002/0178805		DiFoggio et al.	12/5/2002	
		5,361,632		Magnani	11/8/1994	
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		6,412,131		Zhao et al.	7/2/2002	
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		2002/0194906		Goodwin et al.	12/26/2002	
		4,783,987		Hager et al.	11/15/1988	
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		5,741,962		Birchak et al.	4/21/1998	
		5,006,845		Calcar et al.	4/9/1991	
		5,622,223		Vasquez	4/22/1997	
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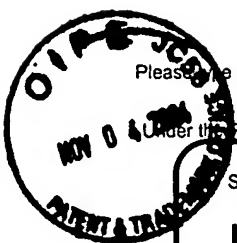
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		5,421,190		Brandle et al.	6/6/1995	
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Application Number	10/804,379
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First Named Inventor	Kolosov et al.
Group Art Unit	2855
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Attorney Docket Number	1012-188

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		Group Art Unit	2855		
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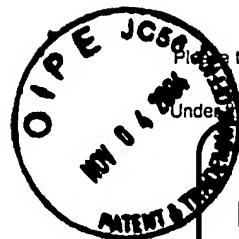
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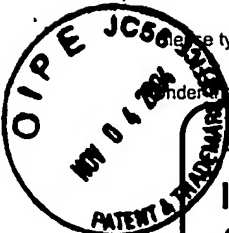
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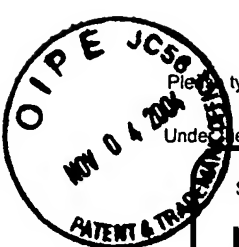
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Filing Date 03-19-04

First Named Inventor Kolosov et al.

Group Art Unit 2855

Examiner Name

Attorney Docket Number 1012-188

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		J. Sorab, G.S. Saloka: "Engine Oil Viscosity Swnsors Using Disks of PZT Ceramic as Electromechanical Vibrators" Society of Automotive Engineers SAE, no. 971702, 1997	
		E. Bohmer, "Elemente der angewandten Elektronik", August 1978, with English translation	

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		Zhang et al.: "Determination of Liquid density with a low frequency mechanical sensor based on quartz tuning fork" Sensors and Actuators B, Elsevier Sequoia S.A. Lausanne, CH. vol. 84, no. 2-3, May 15, 2002, pages 123-128.	
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		"Sensors and Actuators, INTELLEK Oil Condition Sensor", DELPHI Energy and Chassis Systems.	
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		LANGDON, "Vibratory Process Control Transducers", The Marconi Review, Third Quarter, 1980, pp 156-175.	
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